

Amendments to the Claims

1. (Currently amended) A composition comprising a mixture of at least one monomer with the formula:



and at least one monomer with the formula:



where monomers of formula (1) are polymerisable with monomers of formula (2), n and m are integers greater than or equal to 2, such that n and m may be the same or different, X is a group containing a terminal thiol, Y is a group containing a reactive unsaturated carbon-carbon bond, each X may be the same or different, each Y may be the same or different, and A and B are molecular fragments such that at least one of A or B is an organic charge-transporting or organic light-emitting fragment, said composition further comprising at least one of an emissive dopant and a charge transporting dopant.

2. (Original) A composition according to claim 1, wherein $n + m > 4$.

3. (Previously presented) A composition according to claim 1, wherein A, B, X, and Y do not contain any carbonyl groups.

4. (Previously presented) A composition according to claim 1, wherein at least one of A and B is a hole-transporting molecular fragment.

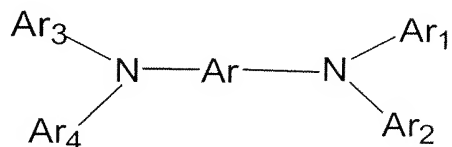
5. (Previously presented) A composition according to claim 1, wherein at least one of A and B is an electron-transporting molecular fragment.

6. (Previously presented) A composition according to claim 1, wherein at least one of A and B is a bipolar-transporting molecular fragment.

7. (Previously presented) A composition according to claim 1, wherein at least one of A and B is a luminescent molecular fragment.

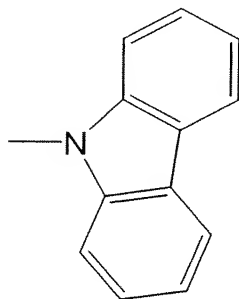
8. (Currently amended) A composition according to claim 1, further comprising [[at least one of]] an initiator, ~~an emissive dopant, and a charge transporting dopant.~~

9. (Previously presented) A composition according to claim 1, wherein A in the monomer of the formula 1 comprises a group of the formula

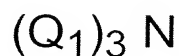


wherein Ar is an optionally-substituted aromatic group and each of Ar₁, Ar₂, Ar₃ and Ar₄ is, independently, an optionally-substituted aromatic or optionally-substituted heteroatomic group and Ar₁ and Ar₂ and/or Ar₃ and Ar₄ may, optionally, be linked together to form, with the N atom to which they are attached, a N-containing ring, wherein at least two of Ar₁, Ar₂, Ar₃ and Ar₄ are bonded, optionally via a spacer unit, to the group X.

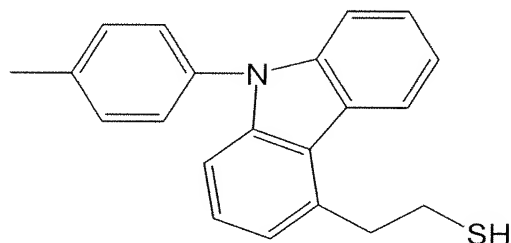
10. (Original) A composition according to claim 9, wherein A in the monomer of the formula 1 comprises at least one group of the formula



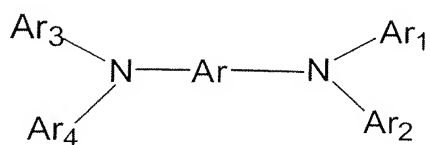
11. (Currently amended) A composition according to claim 10, wherein the monomer of the formula I comprises a group of the formula



where Q_1 is

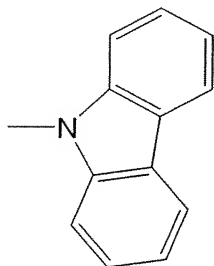


12. (Previously presented) A composition according to claim 1, wherein B in the monomer of the formula 2 comprises a group of the formula

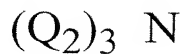


wherein Ar is an optionally-substituted aromatic group and each of Ar_1 , Ar_2 , Ar_3 and Ar_4 is, independently, an optionally-substituted aromatic or optionally-substituted heteroaromatic group and Ar_1 and Ar_2 and/or Ar_3 and Ar_4 may, optionally, be linked together to form, with the N atom to which they are attached, a N-containing ring, wherein at least two of Ar_1 , Ar_2 , Ar_3 and Ar_4 are bonded, optionally via a spacer unit, to the group Y.

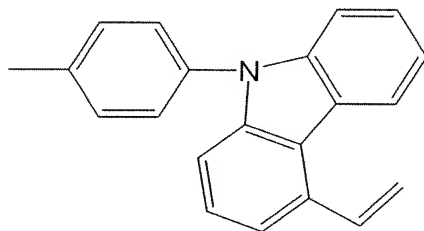
13. (Original) A composition according to claim 12, wherein B in the monomer of the formula 2 comprises at least one group of the formula



14. (Currently amended) A composition according to claim 13, wherein the monomer of the formula 2 ~~[[has]]~~ comprises a group of the formula



wherein Q_2 is



15. (Previously presented) A composition according to claim 9, wherein Ar comprises biphenyl.

16. (Withdrawn) A solid film comprising a thermally-induced or radiation-induced polymerisation reaction product of a composition according to claim 1.

17. (Withdrawn) A solid film comprising a radiation-induced polymerisation reaction product of a composition according to claim 1 that has a pre-determined pattern.

18. (Withdrawn) A solid film comprising a polymer with repeat unit



where A and B are molecular fragments such that at least one of A or B is an organic charge-transporter or organic light-emitting fragment, Z is the addition product of a thiol-containing group X and a group Y containing a reactive unsaturated carbon-carbon bond, and W is the addition product of group Y group X.

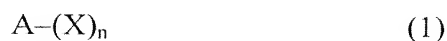
19. (Withdrawn) An organic light emitting device comprising laminated in sequence a substrate, an electrode, a first optional charge transporting layer, an emissive layer, a second optional charge transporting layer and a counter electrode wherein at least one of the emissive layer, the first optional charge transporting layer or the second optional charge transporting layer is a film according to claim 16.

20. (Withdrawn) An organic light emitting device comprising laminated in sequence a substrate, an electrode, a first optional charge transporting layer, an emissive layer, a second optional charge transporting layer and a counter electrode wherein the emissive layer is a film according to claim 16.

21. (Withdrawn) A device as in claim 19, wherein the light emitting layer contains an emissive dopant.

22. (Withdrawn) A process for forming a device as claimed in claim 19 that comprises the steps of:

i) depositing a film of a composition comprising a mixture of at least one monomer with the formula:



and at least one monomer with the formula:



where monomers of formula (1) are polymerisable with monomers of formula (2), n and m are integers greater than or equal to 2, such that n and m may be the same or different, X is a group containing a terminal thiol, Y is a group containing a reactive unsaturated carbon-carbon bond, each X may be the same or different, each Y may be the same or different, and A and B are molecular fragments such that at least one of A or B is an organic charge-transporting or organic light-emitting fragment; and

ii) polymerising said composition.

23. (Withdrawn) A process according to claim 22, comprising exposing at least portions of the film of said composition to actinic radiation to polymerise the corresponding portions of the film.

24. (Withdrawn) A process according to claim 23, comprising exposing the film to actinic radiation through a mask and then developing the film to remove the unexposed portions of the film.

25. (Withdrawn) A process for forming a device as claimed in claim 20 that comprises the steps of:

i) depositing a film of a composition that is capable of emitting light of a first colour said composition comprising a mixture of at least one monomer with the formula:



and at least one monomer with the formula:



where monomers of formula (1) are polymerisable with monomers of formula (2), n and m are integers greater than or equal to 2, such that n and m may be the same or different, X is a group containing a terminal thiol, Y is a group containing a reactive unsaturated carbon-carbon bond, each X may be the same or different, each Y may be the same or different, and A and B are molecular fragments such that at least one of A or B is an organic charge-transporting or organic light-emitting fragment;

ii) exposing portions of said film to actinic radiation through a mask to polymerise the corresponding portions of the film;

iii) removing unexposed portions of said film to leave a pre-determined pattern;

iv) depositing a film of said composition that is capable of emitting light of a second colour; and

v) exposing portions of said second colour film to actinic radiation through a mask to polymerise the corresponding portions of the film.

26. (Previously presented) A composition according to claim 12, wherein Ar comprises biphenyl.

27. (Withdrawn) A device as in claim 20, wherein the light emitting layer contains an emissive dopant.

28. (Withdrawn) An organic light emitting device comprising laminated in sequence a substrate, an electrode, a first optional charge transporting layer, an emissive layer, a second optional charge transporting layer and a counter electrode wherein at least one of the emissive layer, the first optional charge transporting layer or the second optional charge transporting layer is a film according to claim 17.

29. (Withdrawn) A device as in claim 28, wherein the light emitting layer contains an emissive dopant.

30. (Withdrawn) An organic light emitting device comprising laminated in sequence a substrate, an electrode, a first optional charge transporting layer, an emissive layer, a second optional charge transporting layer and a counter electrode wherein at least one of the emissive layer, the first optional charge transporting layer or the second optional charge transporting layer is a film according to claim 18.

31. (Withdrawn) A device as in claim 30, wherein the light emitting layer contains an emissive dopant.

32. (Withdrawn) An organic light emitting device comprising laminated in sequence a substrate, an electrode, a first optional charge transporting layer, an emissive layer, a second optional charge transporting layer and a counter electrode wherein the emissive layer is a film according to 17.

33. (Withdrawn) A device as in claim 32, wherein the light emitting layer contains an emissive dopant.

34. (Withdrawn) An organic light emitting device comprising laminated in sequence a substrate, an electrode, a first optional charge transporting layer, an emissive layer, a second optional charge transporting layer and a counter electrode wherein the emissive layer is a film according to claim 18.

35. (Withdrawn) A device as in claim 34, wherein the light emitting layer contains an emissive dopant.

36. (Withdrawn) A process for forming a device as claimed in claim 20 that comprises the steps of:

i) depositing a film of a composition comprising a mixture of at least one monomer with the formula:



and at least one monomer with the formula:



where monomers of formula (1) are polymerisable with monomers of formula (2), n and m are integers greater than or equal to 2, such that n and m may be the same or different, X is a group containing a terminal thiol, Y is a group containing a reactive unsaturated carbon-carbon bond, each X may be the same or different, each Y may be the same or different, and A and B are molecular fragments such that at least one of A or B is an organic charge-transporting or organic light-emitting fragment; and

ii) polymerising said composition.

37. (Withdrawn) A process according to claim 36, comprising exposing at least portions of the film of said composition to actinic radiation to polymerise the corresponding portions of the film.

38. (Withdrawn) A process according to claim 37, comprising exposing the film to actinic radiation through a mask and then developing the film to remove the unexposed portions of the film.